# Translation

### PATENT COOPERATION TREATY

# **PCT**

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 85P04520	FOR FURTHER ACTION	R ACTION SeeNotificationofTransmittalofInternational Preliminary Examination Report (Form PCT/IPEA/416)			
International application No.	International filing date (day/r	nonth/year)	Priority date (day/month/year)		
PCT/EP01/11633	08 October 2001 (08	10.01)	07 October 2000 (07.10.00)		
International Patent Classification (IPC) or n G02B 27/01	ational classification and IPC				
Applicant PHY	SOPTICS OPTO-ELECT	RONIC GN	ИВН		
This international preliminary exami and is transmitted to the applicant ac	nation report has been prepared cording to Article 36.	by this Intern	ational Preliminary Examining Authority		
2. This REPORT consists of a total of	5 sheets, including	g this cover sl	neet.		
amended and are the basis for	ed by ANNEXES, i.e., sheets of this report and/or sheets contain Administrative Instructions unde	ing rectificat	n, claims and/or drawings which have been ions made before this Authority (see Rule		
These annexes consist of a tot	al of sheets.				
3. This report contains indications relati	ng to the following items:				
I Basis of the report					
II Priority					
III Non-establishment of	III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
v Reasoned statement u	nder Article 35(2) with regard tions supporting such statement	o novelty, inv	entive step or industrial applicability;		
VI Certain documents cit	red				
VII Certain defects in the	VII Certain defects in the international application				
VIII Certain observations on the international application					
Date of submission of the demand	Date of c	ompletion of	this report		
24 April 2002 (24.04.02)		-	•		
	~,	og jan	uary 2003 (09.01.2003)		
Name and mailing address of the IPEA/EP	Authoriz	ed officer			
Facsimile No.	Telephon	e No.			

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP01/11633

I. Basis of the report		
1. With regard to the elements of the international	al application:*	
the international application as originally		
the description:	,	
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pages	1-93*	, as originally file
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the claims:		
pages		, as originally filed
pages	, as amended (	(together with any statement under Article 19
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the drawings:		
pages	1-10	, as originally file
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With regard to any nucleotide and/or amin preliminary examination was carried out on the b contained in the international application in filed together with the international application furnished subsequently to this Authority in furnished subsequently to this Authority in The statement that the subsequently furnished	for the purposes of international prelimentation of the purposes of international prelimentation of the purposes of international prelimentation of the sequence disclosed in the internation of the sequence listing:  In written form.  In written form.  In computer readable form.	minary examination (under Rule 55.2 and/
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The amendments have resulted in the cance		
the description, pages	<del></del>	
the claims, Nos.		
the drawings, sheets/fig		
This report has been established as if (some beyond the disclosure as filed, as indicated in	of) the amendments had not been made in the Supplemental Box (Rule 70.2(c)).	de, since they have been considered to go
Replacement sheets which have been furnished to t in this report as "originally filed" and are not and 70.17).	the receiving Office in response to an i annexed to this report since they d	invitation under Article 14 are referred to lo not contain amendments (Rule 70.16
Any replacement sheet containing such amendment	s must be referred to under item 1 and c	annexed to this report.
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V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	3,5-10,17-22,25-32,39-44	YES
	Claims	1,2,4,11-16,23,24,33-38	NO
Inventive step (IS)	Claims	3,5,6,8-10,17-22,25,26,28-32,39-44	YES
	Claims	1,2,4,7,11-16,23,24,27,33-38	NO
Industrial applicability (IA)	Claims	1-44	YES
	Claims		NO

2. Citations and explanations

Reference is made to the following documents:

D1: US-A-6 008 781 D2: WO-A-98/13720 D3: US-A-5 973 781

- 1. Claims 1, 2, 4, 11 to 16, 23, 24 and 33 to 38 do not meet the requirements of PCT Article 33(2) since they are not novel.
- 1.1 D1 discloses an information system in which light impinges on the eye. It comprises a holographic element (72) mounted in front of the eye and a projection device (80, 82, 84, 132, etc.) which projects light into the eye via the holographic element. In the embodiment in Figure 4, there is also a so-called "eye-tracker" which, via an optical scanning device (150), detects the light impinging on the eye with a sensor (146). It is implicitly clear that the comments concerning the toric element (72) also apply to the similar toric element (152), i.e. it can take the form of a holographic element.

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Therefore the features of independent Claims 1, 13, 23 and 35 have been disclosed and hence the claims are not novel.

- D2 and D3 also support this objection:
  D2 (page 7, lines 15 to 18; and page 13) discloses an information system with a holographic element and a projection arrangement and a method as per Claims 13 and 35;
  D3 (column 2, line 47, to column 3, line 67) describes an information system in which light is deflected into the eye via a diffractive optical element and detected by a scanning arrangement. It is prejudicial to the novelty of Claims 1 and 23.
- 1.3 The features in dependent Claims 2, 4, 11, 12, 14 to 16, 24, 33, 34 and 36 to 38 are likewise described in D1. Therefore these claims lack novelty.
- 2. Inventive step (PCT Article 33(3))
- 2.1 D1 mentions infra-red lighting in conjunction with the projection and scanning system. Therefore the subject matter of the corresponding claims (7, 14 and 27) is obvious and requires no inventive input.
- 3. The [German] word "brechen" [literally "break"] is not a suitable technical expression for describing the action of a hologram since it describes the deflection of light beams at surfaces with a shift in refractive index. The correct term "beugen" ["diffraction"] or an expression with a similar meaning, but which should be disclosed, would be suitable.

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4. In light of the above prior art, no common inventive concept pursuant to PCT Rule 13.1 is discernible. However, it does not appear reasonable to raise an objection with the claims in their current state.